

HAWAII, ISLAND OF OAHU

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16226200 NORTH HALAWA STREAM NEAR HONOLULU

LOCATION.--Lat 21°23'04", long 157°54'22", Old Hawaiian Datum, Hydrologic Unit 20060000, on right bank, 0.5 mi north of Halawa quarry, 1.7 mi east of Aiea High School, and 1.9 mi east of Aiea.

DRAINAGE AREA.--4.01 mi².

PERIOD OF RECORD.--February 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 160 ft above mean sea level (from topographic map).

REMARKS.--Records computed by S.T.M. Young. Records fair, except for estimated days which are poor.

AVERAGE DISCHARGE.--21 years (water years 1984-2004), 4.95 ft³/s (3,590 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s, December 18, 1990, gage height, 12.02 ft; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Nov 29	2130	*1,570	*11.76		Dec 7	2100	1,090	11.08
	Dec 1	1150	659	10.15		Jan 2	1550	864	10.63
	Dec 5	1720	540	9.83		Feb 27	1540	860	10.62

Minimum discharge, 0.00 ft³/s, on many days, gage height, 5.43 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	100	53	7.2	15	e9.1	0.94	0.27	1.9	0.11	0.37
2	0.00	0.00	19	208	3.5	e22	7.0	0.68	0.39	1.5	8.4	0.74
3	0.01	0.00	12	100	2.0	e7.9	19	0.67	0.61	0.94	16	0.47
4	0.03	0.00	55	20	2.8	e5.2	10	3.1	0.47	0.53	e217	0.26
5	0.00	0.00	145	10	4.1	e3.1	5.7	3.7	0.27	0.51	e17	0.20
6	0.00	0.00	52	6.1	13	e1.8	3.7	4.2	0.28	0.51	e5.7	1.3
7	0.30	0.00	187	3.8	73	e2.7	2.8	7.6	0.24	0.44	e41	0.31
8	1.1	0.00	69	2.4	26	e6.4	2.2	2.9	0.34	0.59	e4.8	0.16
9	0.82	0.00	18	1.2	6.0	e3.8	2.2	1.5	0.96	2.0	e2.6	0.16
10	0.12	0.00	29	0.75	3.2	e2.3	13	0.88	5.6	0.57	e1.2	0.13
11	1.3	0.00	35	0.52	2.1	1.9	7.0	26	3.4	4.6	e1.9	0.14
12	4.7	0.00	12	0.61	1.3	3.2	19	21	2.0	4.5	e2.7	0.77
13	0.86	0.00	9.6	0.35	0.78	e12	10	5.2	1.9	3.0	0.84	0.13
14	1.5	0.00	5.7	3.0	0.53	e15	4.9	3.4	0.96	1.5	0.41	0.25
15	1.5	0.22	3.8	1.4	0.40	4.9	30	36	0.51	0.63	0.22	0.17
16	0.46	0.51	2.5	0.41	0.28	2.5	19	11	0.41	0.34	0.16	0.12
17	0.24	1.3	2.2	0.26	0.23	1.6	8.8	3.0	1.5	0.30	0.14	0.12
18	0.22	1.5	1.5	0.20	0.18	0.90	4.8	1.7	0.94	0.23	0.12	0.13
19	0.17	1.4	0.76	0.32	0.15	0.56	4.0	1.0	0.53	0.17	0.11	4.2
20	0.12	0.54	0.52	1.0	0.12	3.1	14	0.74	2.3	0.13	0.09	0.55
21	0.09	0.58	0.40	0.87	0.10	149	13	0.53	2.3	0.11	1.4	0.23
22	0.16	0.41	0.31	7.6	0.09	e119	5.0	0.39	3.9	0.11	0.66	2.2
23	0.08	0.52	0.26	14	0.11	e73	3.7	0.58	5.7	0.09	0.56	5.0
24	0.06	0.30	0.23	2.9	0.07	e29	2.7	0.46	6.7	0.08	2.5	4.8
25	0.05	0.61	0.19	13	0.07	e25	2.2	0.61	2.5	0.08	2.3	2.6
26	0.04	0.31	0.16	10	31	e24	26	0.38	1.4	0.17	20	0.98
27	0.03	0.36	0.13	11	200	e20	6.4	0.53	0.80	0.12	7.6	0.62
28	0.00	0.34	0.33	3.9	54	e11	2.9	0.45	0.80	2.0	3.3	0.22
29	0.00	201	0.18	2.7	15	e21	1.9	0.32	1.7	0.36	2.5	0.46
30	0.00	91	1.3	3.2	---	e76	1.3	0.41	1.3	0.17	1.4	0.37
31	0.00	---	35	6.2	---	e19	---	0.41	---	0.17	0.82	---
TOTAL	13.96	300.90	798.07	488.69	447.31	681.86	261.3	140.28	50.98	28.35	363.54	28.16
MEAN	0.45	10.0	25.7	15.8	15.4	22.0	8.71	4.53	1.70	0.91	11.7	0.94
MAX	4.7	201	187	208	200	149	30	36	6.7	4.6	217	5.0
MIN	0.00	0.00	0.13	0.20	0.07	0.56	1.3	0.32	0.24	0.08	0.09	0.12
AC-FT	28	597	1,580	969	887	1,350	518	278	101	56	721	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	3.23	7.19	8.08	7.31	4.51	7.72	6.06	3.10	1.82	3.48	2.92	2.68
MAX	9.71	29.1	40.6	29.6	17.4	31.0	35.3	15.5	7.84	15.0	11.7	12.6
(WY)	(1992)	(1997)	(1988)	(1988)	(1989)	(1991)	(1989)	(1988)	(1987)	(1989)	(2004)	(1992)
MIN	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1985)	(1990)	(1990)	(1986)	(1983)	(1983)	(1983)	(1992)	(1984)	(1984)	(1984)	(1984)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1983 - 2004
ANNUAL TOTAL	1,614.66	3,603.40	
ANNUAL MEAN	4.42	9.85	4.95
HIGHEST ANNUAL MEAN			10.1
LOWEST ANNUAL MEAN			1.43
HIGHEST DAILY MEAN	201	Nov 29	476
LOWEST DAILY MEAN	0.00	Jan 5	Mar 24, 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 5	0.00
ANNUAL RUNOFF (AC-FT)	3,200	7,150	3,590
10 PERCENT EXCEEDS	3.9	20	10
50 PERCENT EXCEEDS	0.02	1.3	0.40
90 PERCENT EXCEEDS	0.00	0.09	0.00

e Estimated